

# smart [ ] OEE

MES Made Simple



## Entering the Digital Factory

Capture Production Data & Derive Optimizations

**FASTEC**  
Software for Production

# Plug & Play for Success

## Fast & Cost-Effective

smartOEE is a **3-month project** in which we work together to uncover the potential of your machine, initiate optimizations, and sustainably increase productivity.

For this purpose, we provide you with a **plug & play system** consisting of high-performance software and reliable hardware. We support you during commissioning and train you to ensure optimal use.

Your production data is digitally acquired and can be analyzed directly in the cloud. By automatically calculating **Overall Equipment Effectiveness (OEE)**, you can derive optimization measures and increase production efficiency.

We offer smartOEE as a Software as a Service (SaaS) solution, ensuring continuous development and improvement.

### Think Big – Start Small



# Analyze Production Data in Intuitive Dashboards

With smartOEE, you can analyze your collected production data using **standardized or customized dashboards**.

The reporting components access the data in the cloud. With the help of these visualizations, companies can quickly identify weak points, implement targeted improvements, and track various KPIs such as **Overall Equipment Effectiveness (OEE)**.



## ✓ Insights into Production Productivity and Efficiency:

- Compare different time points: in the OEE comparison
- Gain detailed insights into performance, quality, and availability: in the OEE analysis

## ✓ Support in Daily Operations:

- Compare yesterday with today: in the status analysis
- Identify scrap and defect-free products: in the order analysis

## ✓ Company-Wide Transparency beyond Plant Boundaries:

- Instantly recognize production performance worldwide: in the global overview
- Track the time-based development of various KPIs: in the global monthly comparison

## ✓ Designer for Custom Dashboards:

- Analysis using individually configured widgets and charts
- Live monitoring for real transparency

# Capture Production Data

## from the Shopfloor to the Cloud

With smartOEE, you capture **precise production data**, ensuring transparency and enabling the calculation of key figures as well as the **optimization of your production**.

In addition to **machine and production data** with a focus on Overall Equipment Effectiveness (OEE), you also determine machine runtimes and downtimes with exact timing. Automatic and/or manual acquisition of data such as **quantities**

and **scrap rates** takes place, along with the assignment of **statuses** (e.g., production, downtime, malfunction).

As the software foundation for data acquisition, we use the proven **MES FASTEC 4 PRO**. The analysis is performed in the cloud system **pvaPRO**. The result: a reliable, straightforward Plug & Play solution that can be quickly and easily put into operation.



**Intuitive operation** for order registration and error entry

Automatic acquisition of **availability**, **performance** and **quality** based on machine signals

**Connection** via light sensor, I/O  
Optional: PLC, or OPC UA



# Scope of Services

## Capture Production Data and Identify Potential

### Software – High-performance features with Intuitive Operation:

- ✓ Acquisition of machine and production data at a single machine
- ✓ Management of users, machines, and articles
- ✓ Standard templates for monitoring and analysis
- ✓ Intuitive production client for operation at the machine
- ✓ Manual registration of production orders, articles, and batch sizes
- ✓ Automatic recording of production times and interruptions
- ✓ Automatic counting of good/reject parts
- ✓ Manual justification of up to 50 statuses and malfunctions
- ✓ Data correction, archiving, and backup

### Hardware – Reliable Components for the Shopfloor:

- ✓ FASTedge Box: connects cloud, terminal, and machine
- ✓ FASTedge SFT15: includes light sensor and a mounting bracket
- ✓ Support: Express Replacement Service and hardware upgrade option

### Options – Custom Extensions for Your Requirements

- ✓ Extended machine integration via PLC, OPC UA, etc.
- ✓ Complex data collection logic for counters and states
- ✓ Custom dashboard design
- ✓ Additional options available on request

#### Starter Package:

Use for 3 months,  
pay for only 2

€ 3.875,-

#### Ongoing Rental:

From the 4th month  
per month

€ 650,-

#### Rollout:

per additional machine  
per month

€180,-

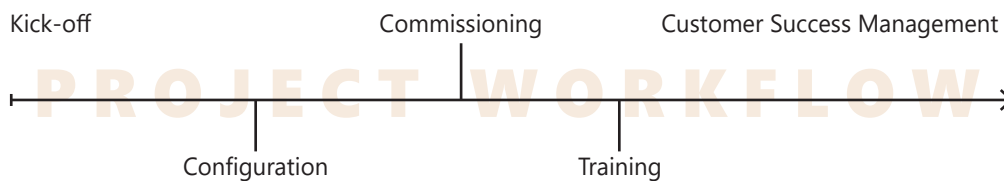
plus one-time setup fee of € 645,-

## Services

### Comprehensive Support Backed by Partnership

With FASTEC, you benefit from years of project experience in digital manufacturing across various industries. We offer **extensive services** and support you on your path toward the factory of the future.

Throughout the entire project and beyond, we guide you in using the system. With our consulting services, you can unlock the **full potential** of your FASTEC implementation. You'll strengthen your data expertise and increase efficiency in your production.



#### Included in Our Setup Package:

- ✓ Kick-off for project planning and goal setting
- ✓ Setup and fine-tuning of master data
- ✓ Pre-configuration of software and hardware
- ✓ Support during commissioning and function testing
- ✓ Training for use on the shopfloor and in the office
- ✓ Customer Success Management to achieve your goals

#### What You Can Prepare in Advance:

- Goals and timeline
- Key users and available resources
- Machine layout with data collection points
- Articles with performance targets and units
- Machine states and disruptions
- IT infrastructure for hardware integration



# Everything from a Single Source

## Software and Hardware Working in Sync

The edge components are provided by our **FASTedge** product family. You benefit from the option to **rent our hardware flexibly**. In case of a defect, we begin troubleshooting within 48 hours.

Once you receive the system and the corresponding hardware, you can start using smartOEE immediately (**Plug & Play**). With our **services**, we support you during commissioning and implementation.

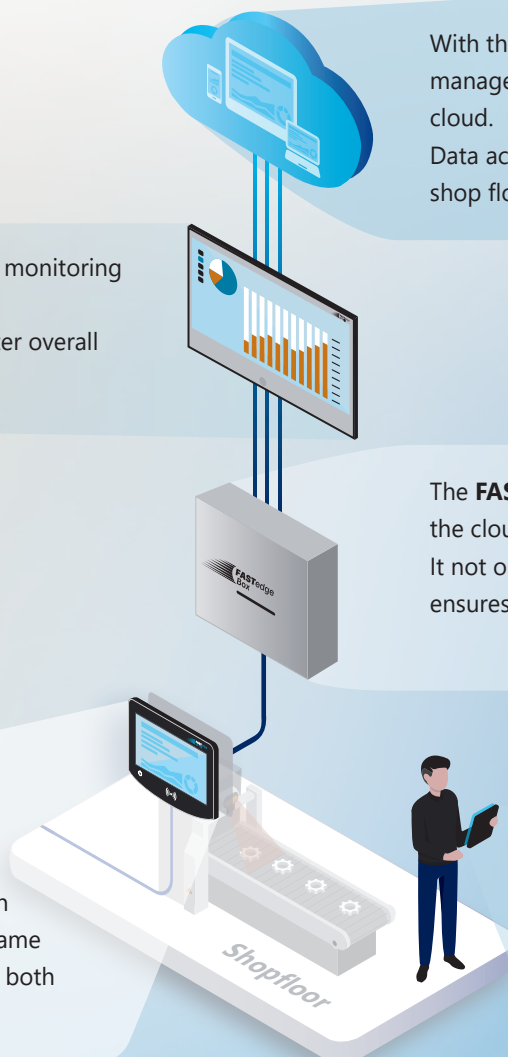
The **FASTedge SFM65** enables live monitoring of production data. The robust monitor provides a better overall view and increased transparency.

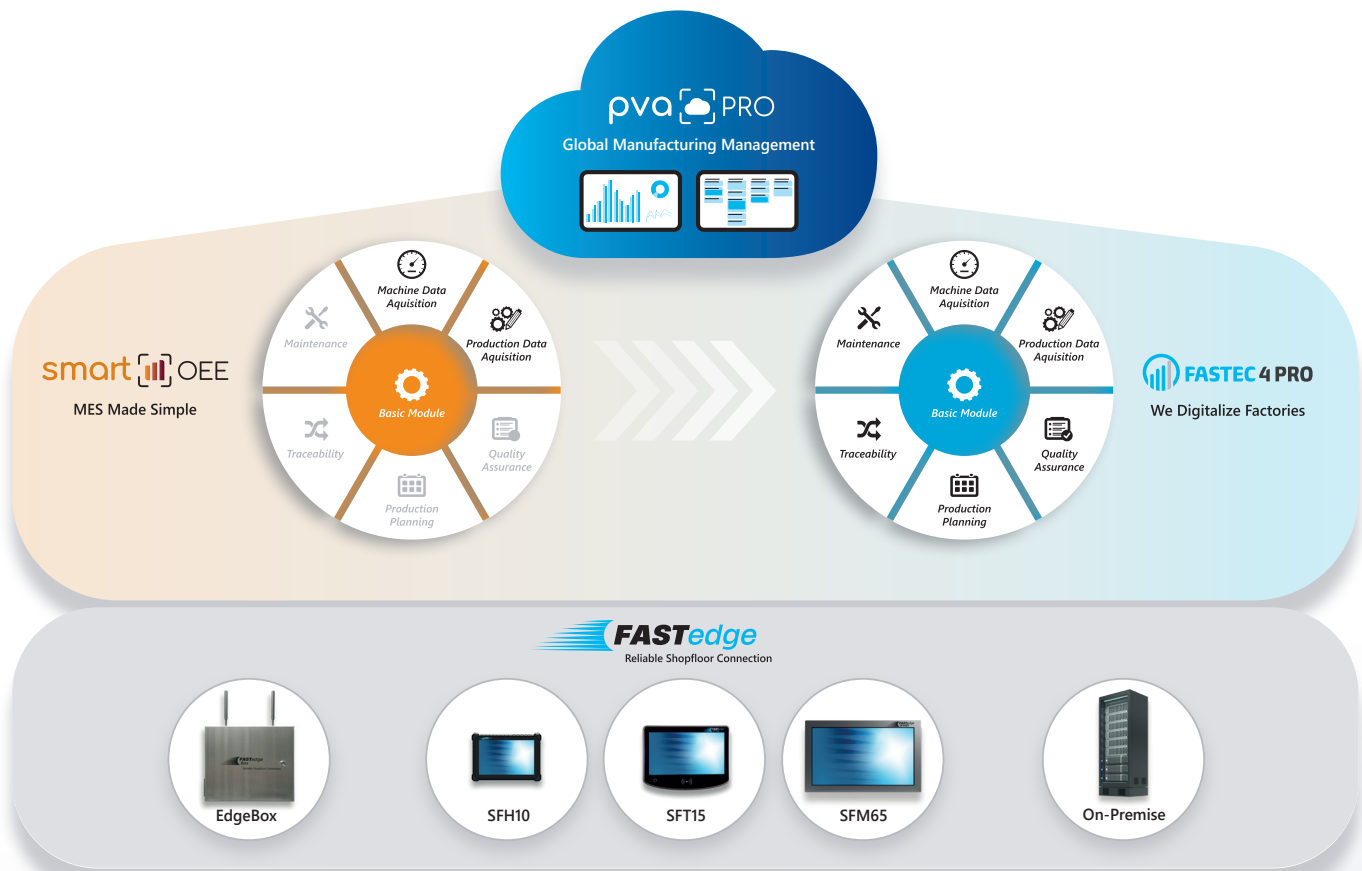
With the **hybrid architecture** model, data management and analysis take place in the cloud. Data acquisition is performed directly on the shop floor, ensuring high performance.

The **FASTedge** Box establishes connections to the cloud, terminals, and machines. It not only manages system control but also ensures failover protection (Always On).

Through the **FASTedge SFT15** touch terminal, production staff can enter data at the machine. At the same time, machine signals are recorded both automatically and manually.

The **FASTedge SFH10** is ideal for mobile use: production staff can enter data into the system while on the move.





## Our Solutions at a Glance

### Live & Global:

pvaPRO centrally manages locations and users in the cloud. Both real-time data and historical production values are visualized in clear dashboards.

### Compact & Cost-Effective:

smartOEE enables entry into the MES world. Companies achieve quick successes by collecting machine and operational data and identifying potential improvements. smartOEE justifies the investment in MES FASTEC 4 PRO

### Modular & Proven:

With FASTEC 4 PRO, additional functions can be expanded. The MES digitalizes the entire production process and covers all process steps – industry-independent, flexible, and adaptable to individual requirements.

### Compatible & Robust:

FASTedge complements the software with matching hardware components, creating a complete IT infrastructure from a single source. The terminal and tablet serve as the interface between human and machine.



**pva** PRO  
Global Manufacturing Management

**FASTEC 4 PRO**  
We Digitalize Factories

**smart** OEE  
MES Made Simple

**FASTedge**  
Reliable Shopfloor Connection

**FASTEC** services  
Enabling Your Digital Journey

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## Your Solution Partner for Future Manufacturing

Since 1995, we have been providing intelligent systems for the manufacturing industry, supporting our customers on their path to digital transformation. More than 400 companies worldwide trust us and achieve remarkable optimizations in their production with our MES solutions. Performance, reliability, and partnership define our approach as we help shape the factory of the future.

Our systems are built on one another and are fully integrated. Their modularity and continuous development allow you to expand MES functions at any time, enabling full production digitalization.

Whatever your requirements, we offer the right solution. We are with you every step of the way – throughout the entire project and beyond.

